

1/26

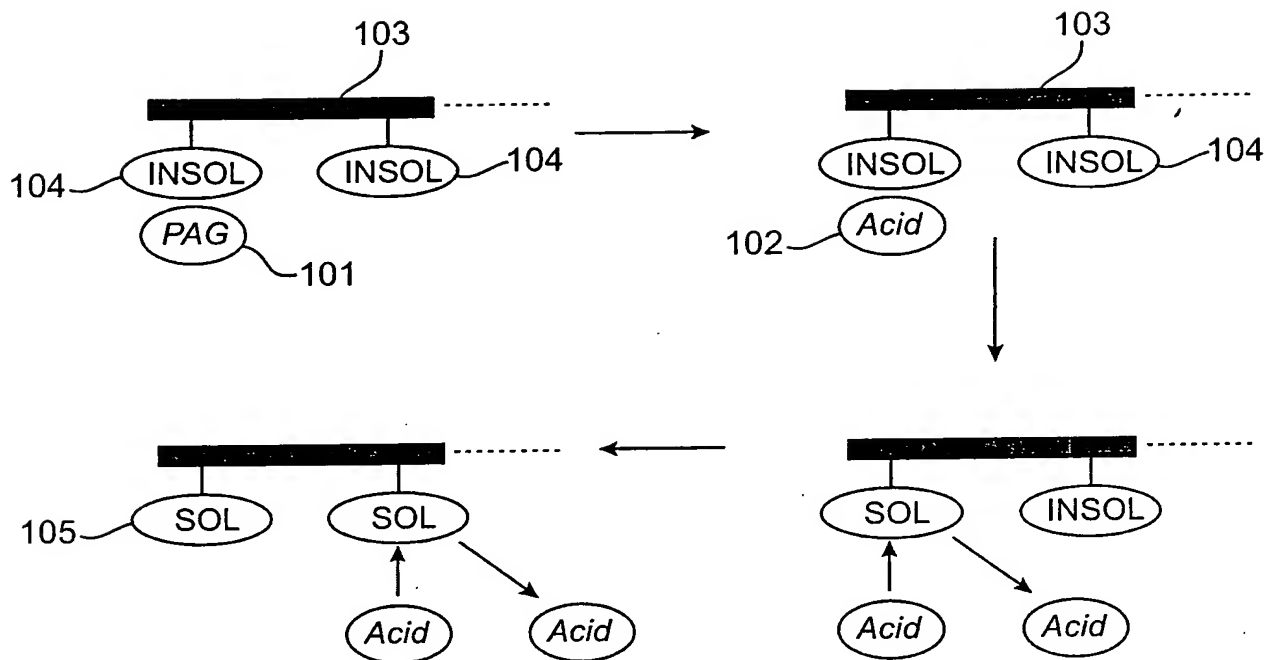


FIG. 1

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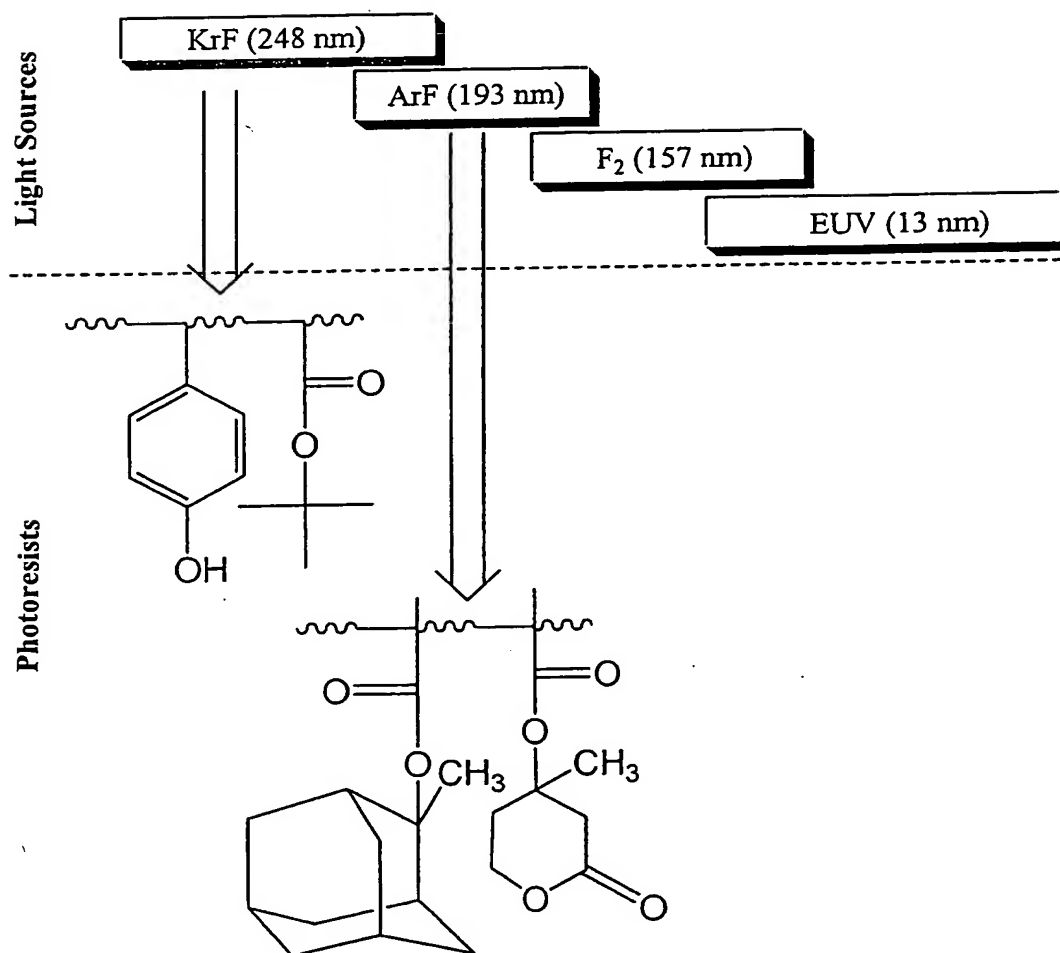


FIG. 2

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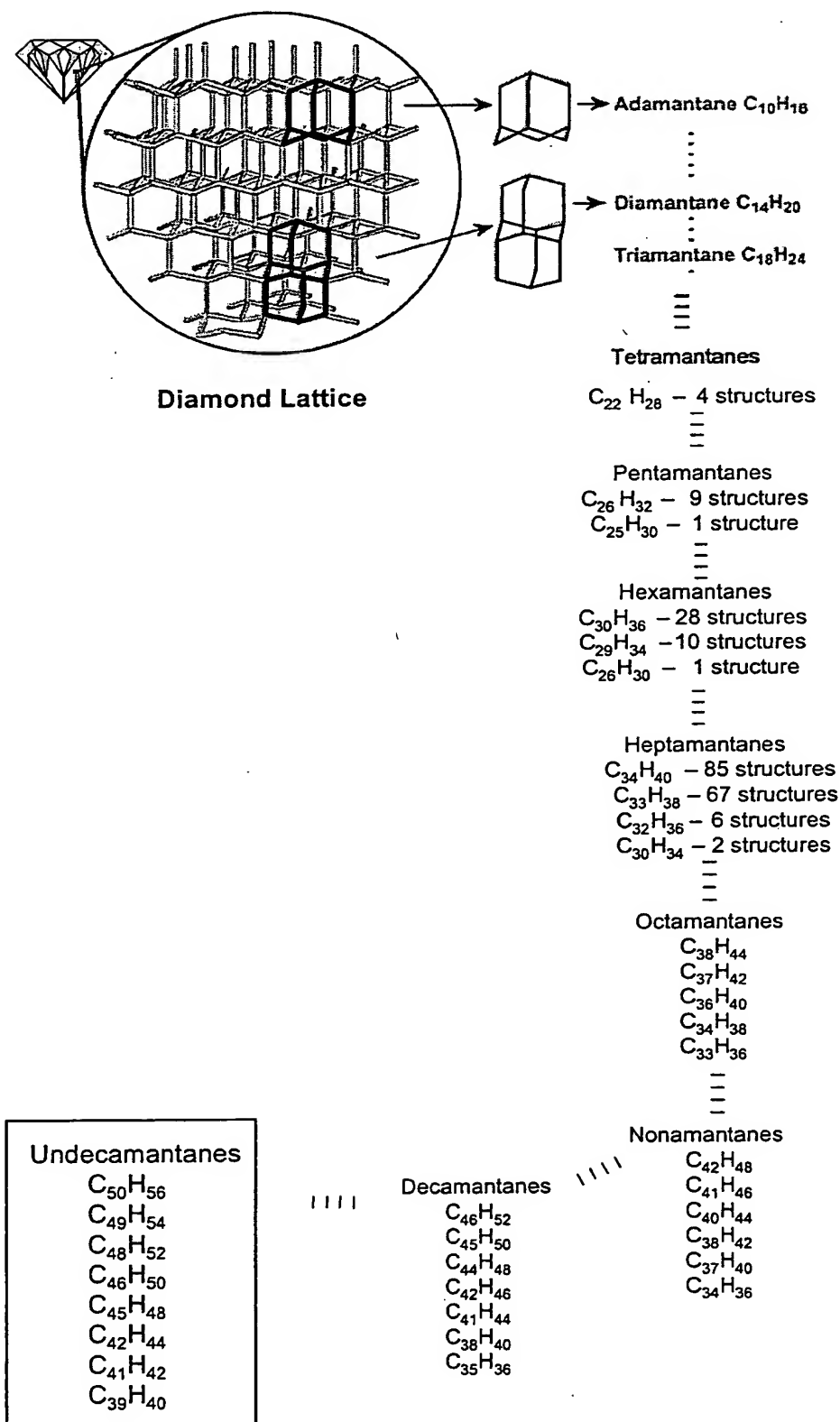


FIG. 3

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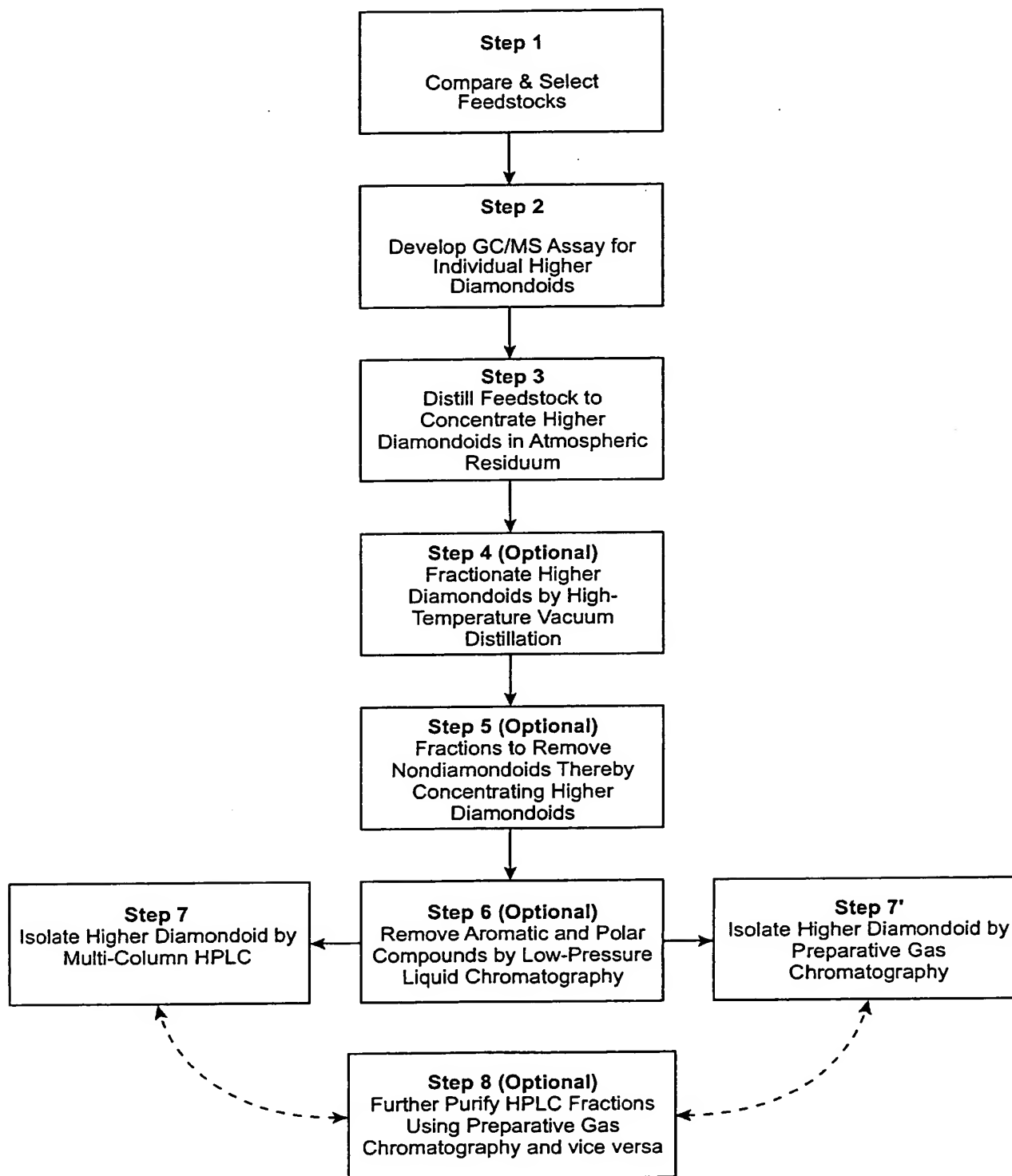


FIG. 4

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FIG. 5A

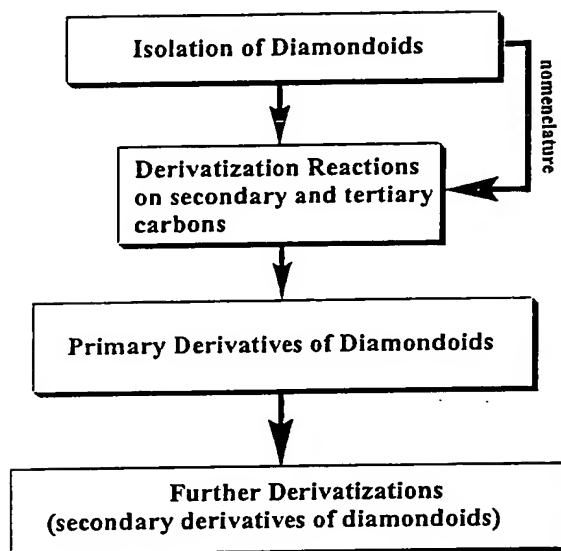
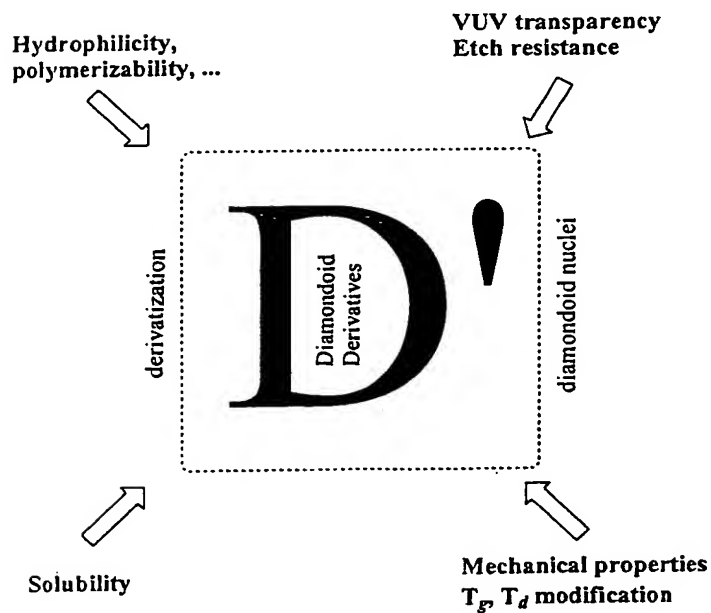


FIG. 5B



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FIG. 6

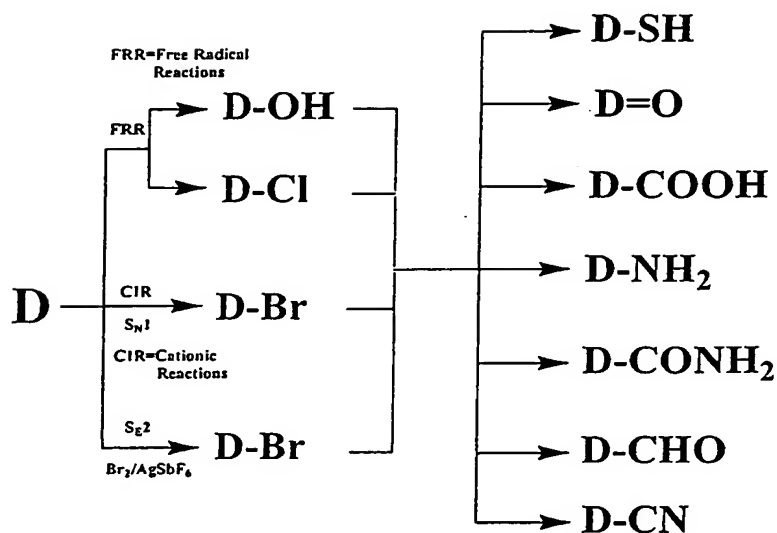
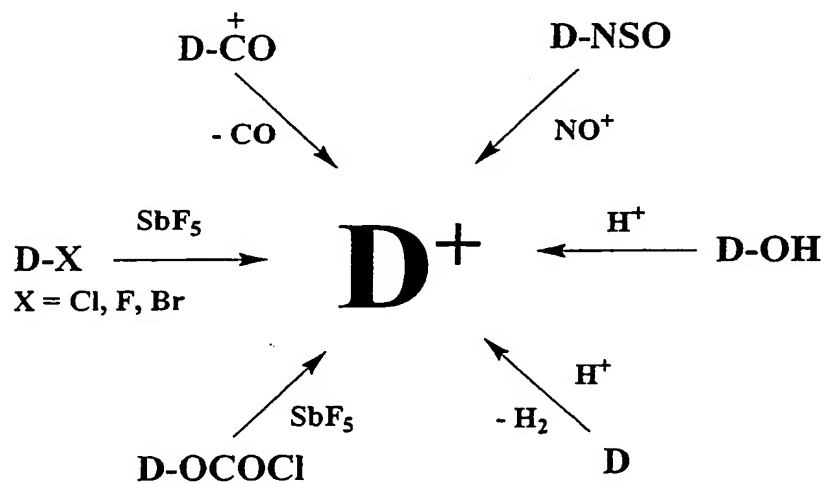


FIG. 7

Representative Ways of Generation of Diamondoid Cations (D^+)



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FIG. 8

Representative S_N1 Reactions of Diamondoid Carbocations

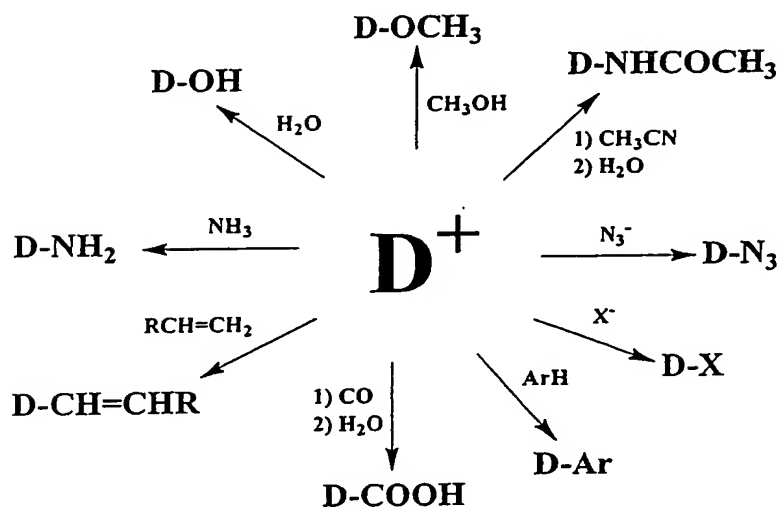
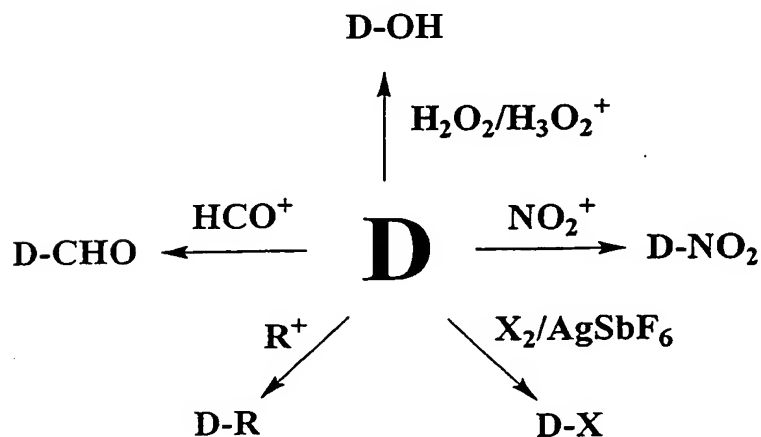


FIG. 9

Representative S_E2 Reactions of Diamondoids



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FIG. 10

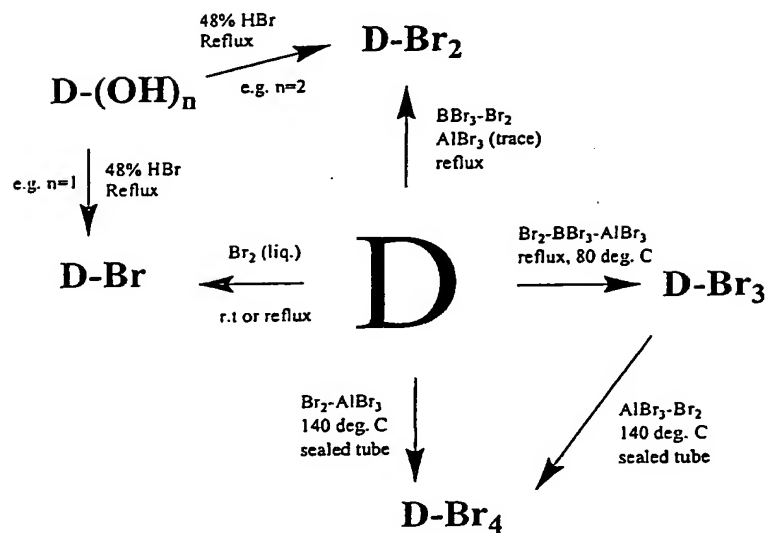
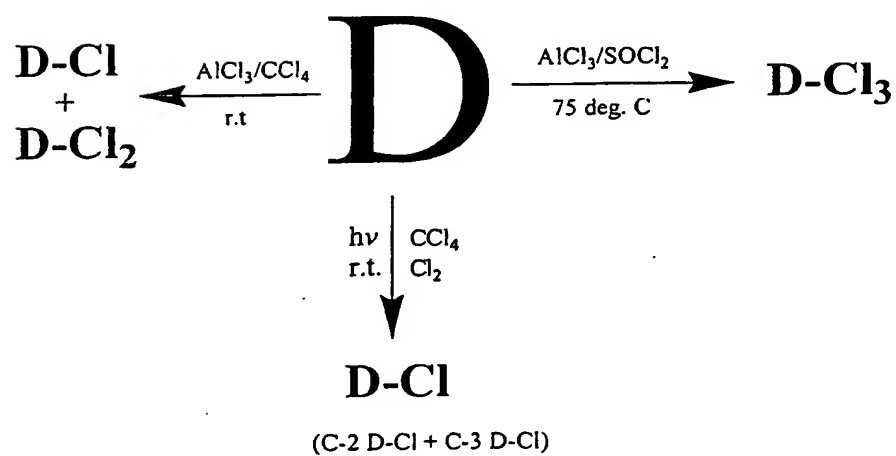


FIG. 11



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FIG. 12

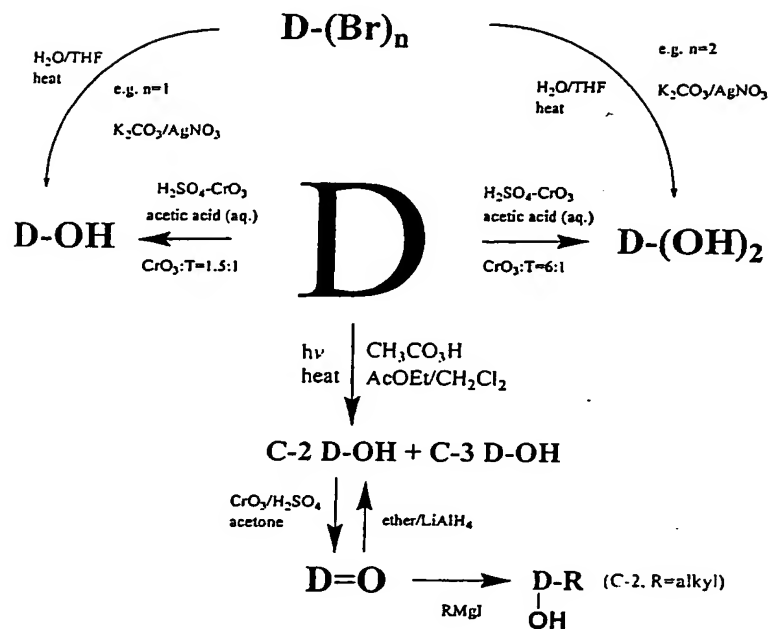
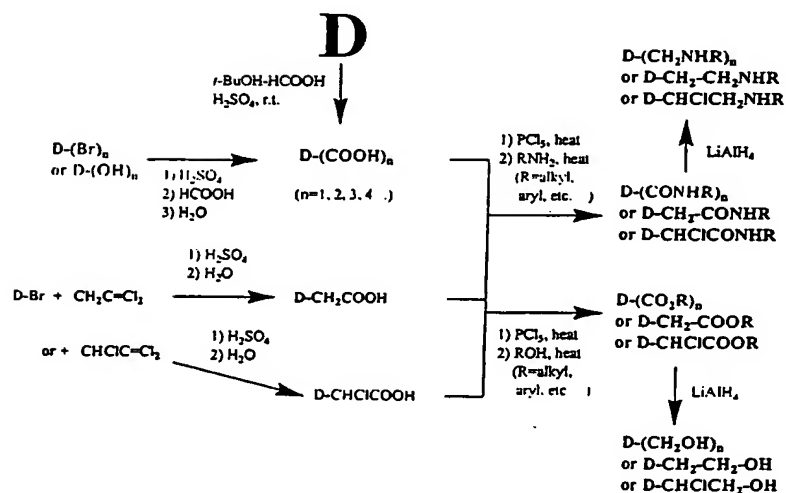


FIG. 13



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FIG. 14

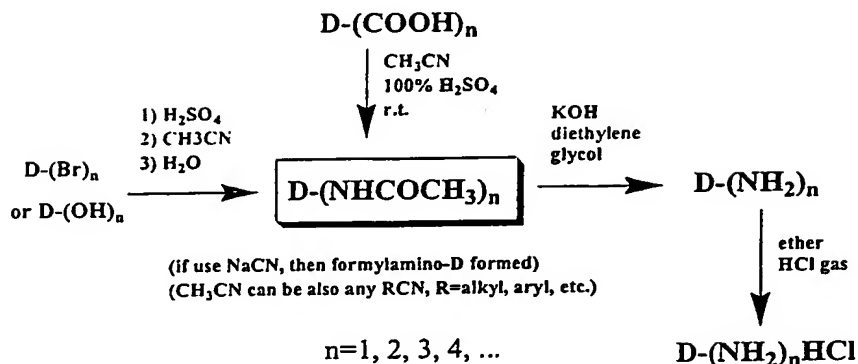
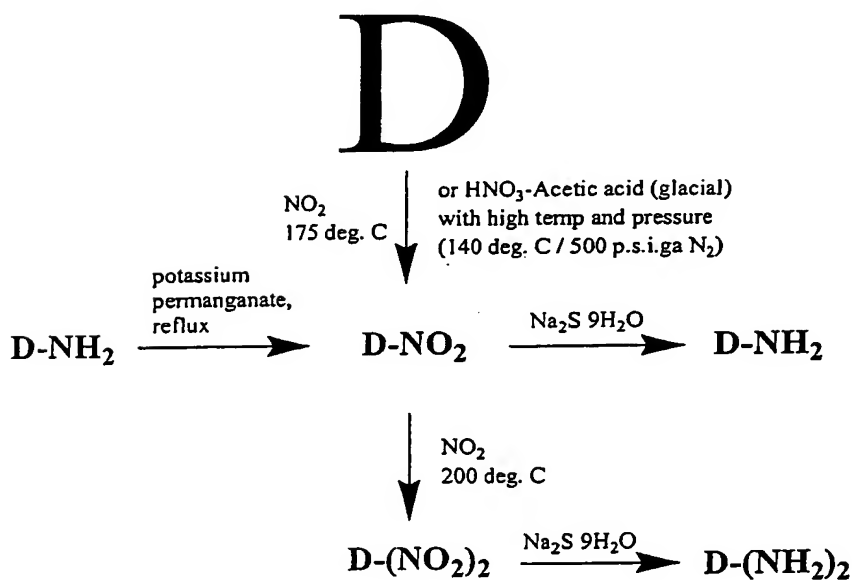


FIG. 15



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FIG. 16

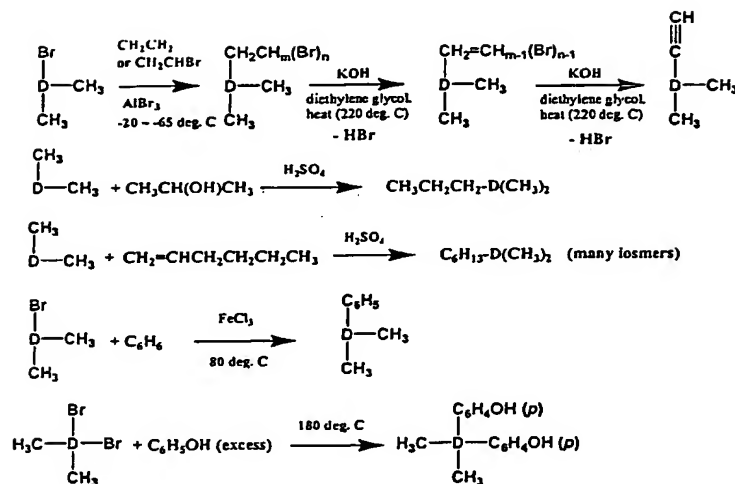
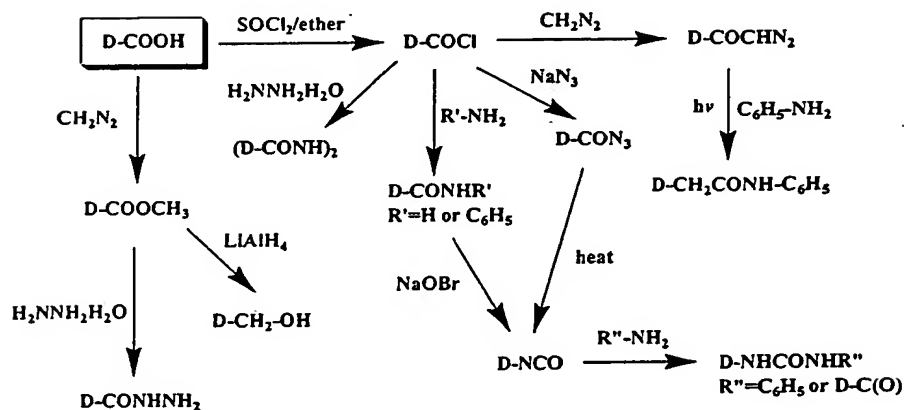


FIG. 17



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FIG. 18

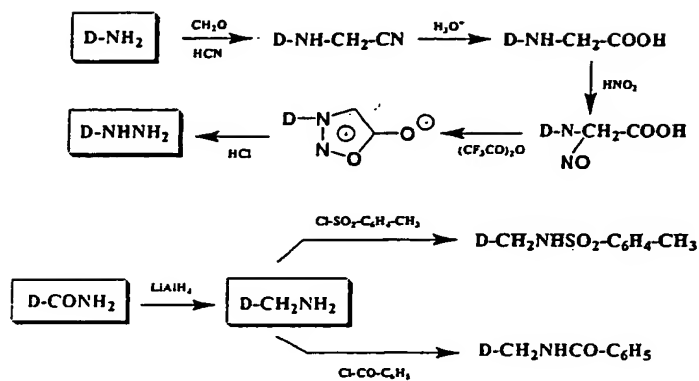


FIG. 19

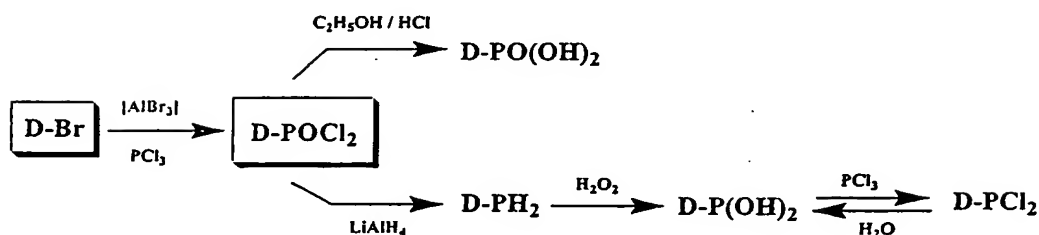


FIG. 20

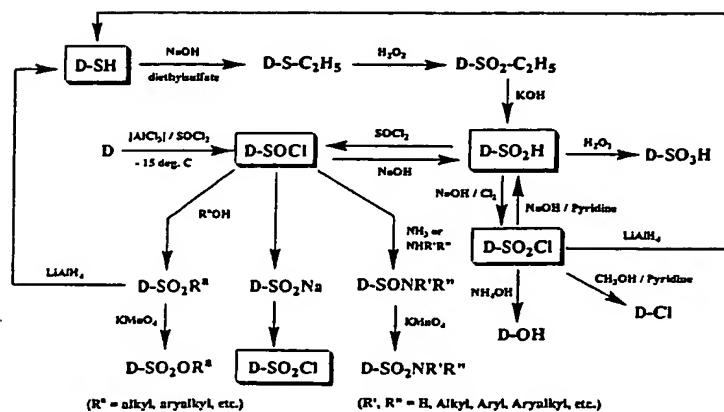
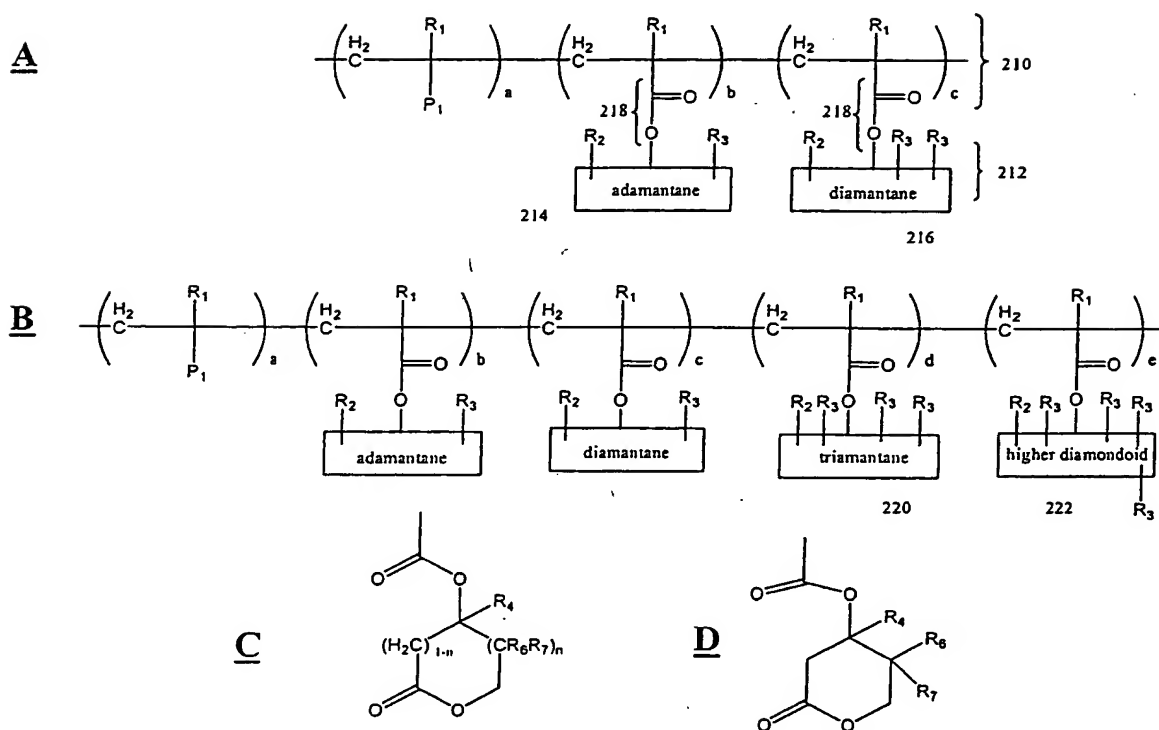
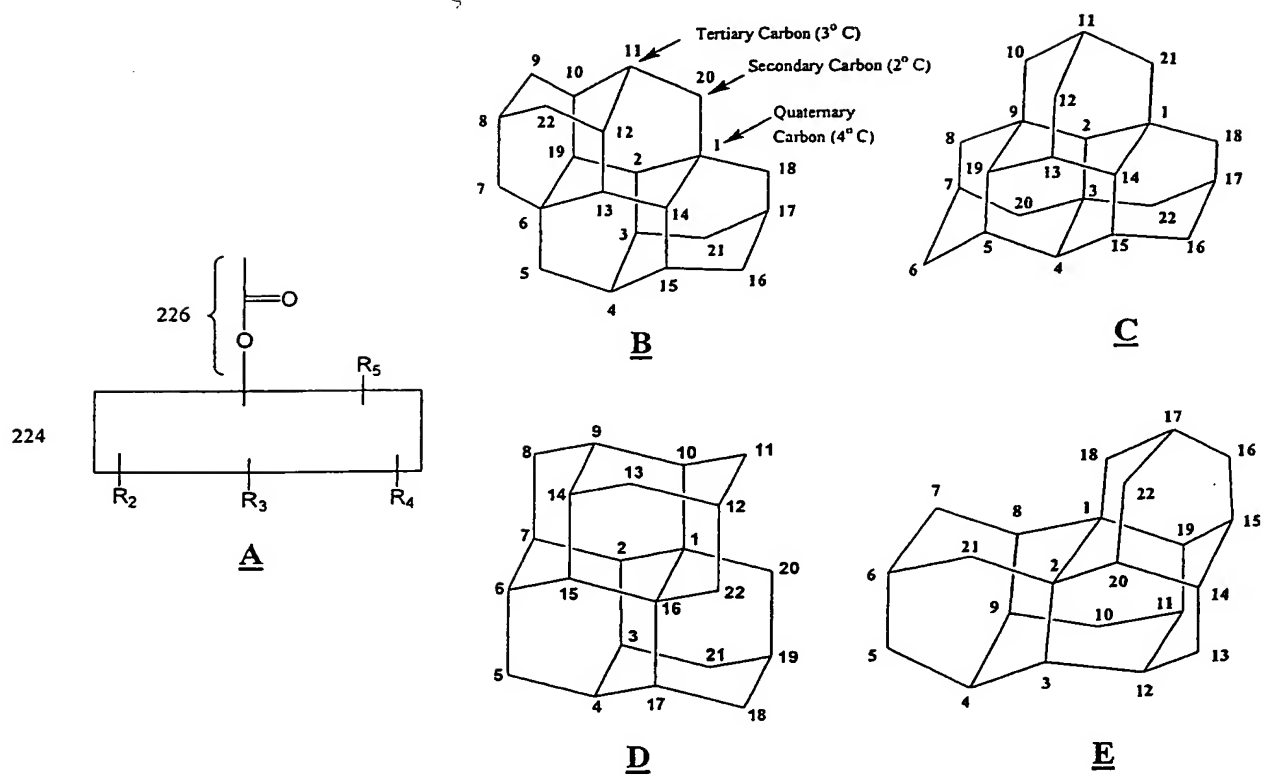


FIG. 21



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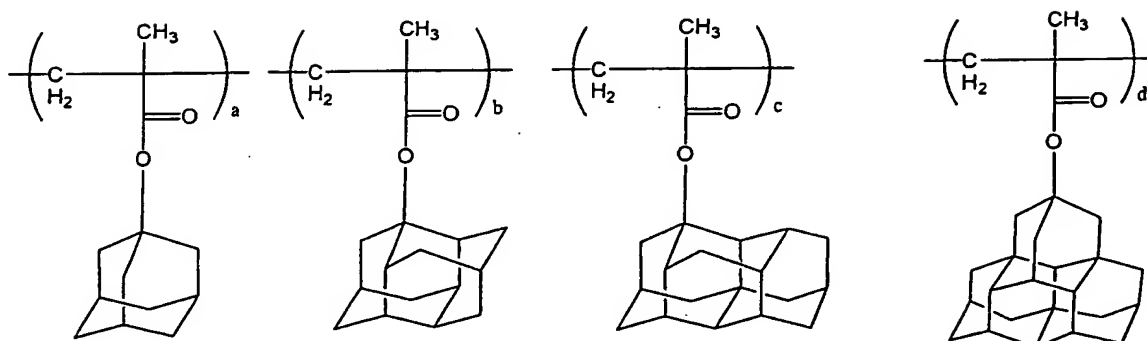
FIG. 22



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FIG. 23

A



$C_{14}H_{20}O_2$

$C_{18}H_{24}O_2$

$C_{22}H_{28}O_2$

$C_{26}H_{32}O_2$

Ohnishi's
Number (O.N.)

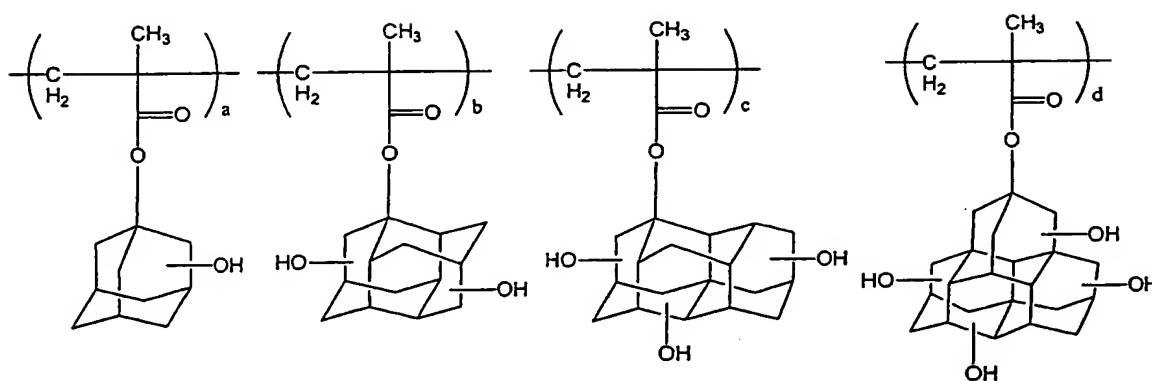
3.0

2.75

2.60

2.50

B



$C_{14}H_{20}O_3$

$C_{18}H_{24}O_4$

$C_{22}H_{28}O_5$

$C_{26}H_{32}O_6$

Ohnishi's
Number (O.N.)

3.36

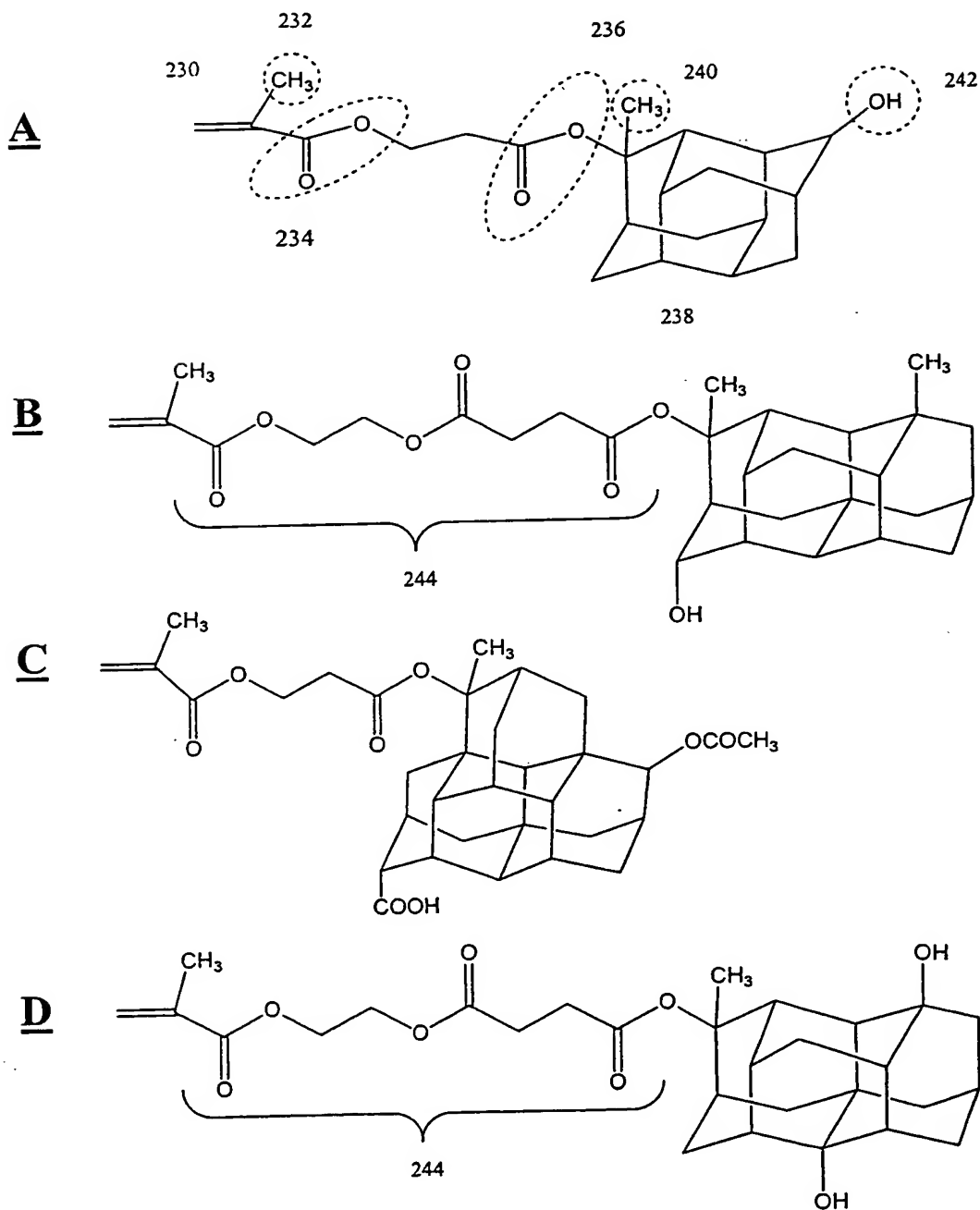
3.28

3.23

3.20

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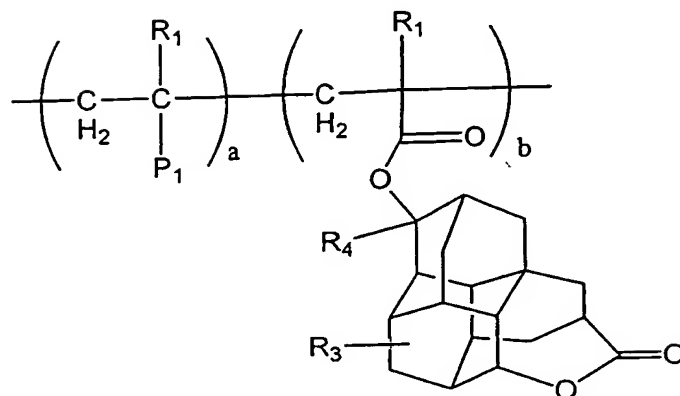
FIG. 24



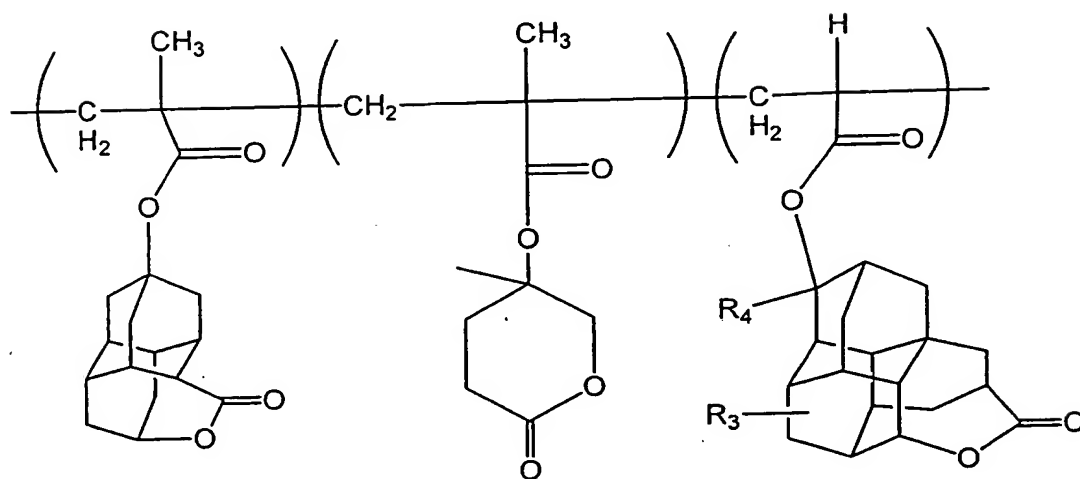
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FIG. 25

A

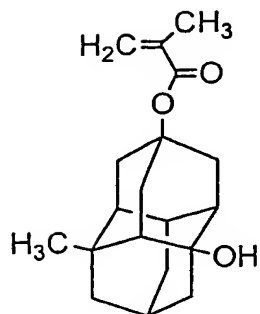


B

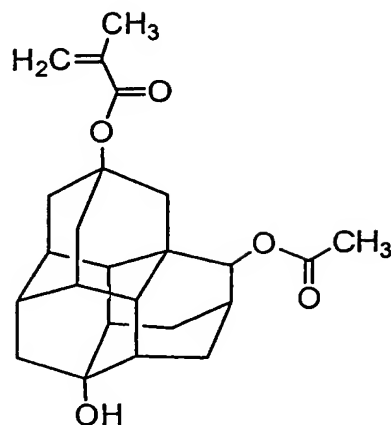


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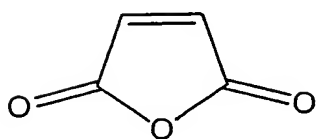
FIG. 26



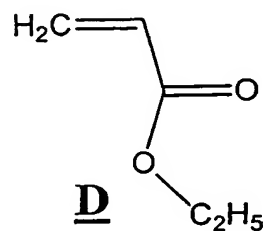
A



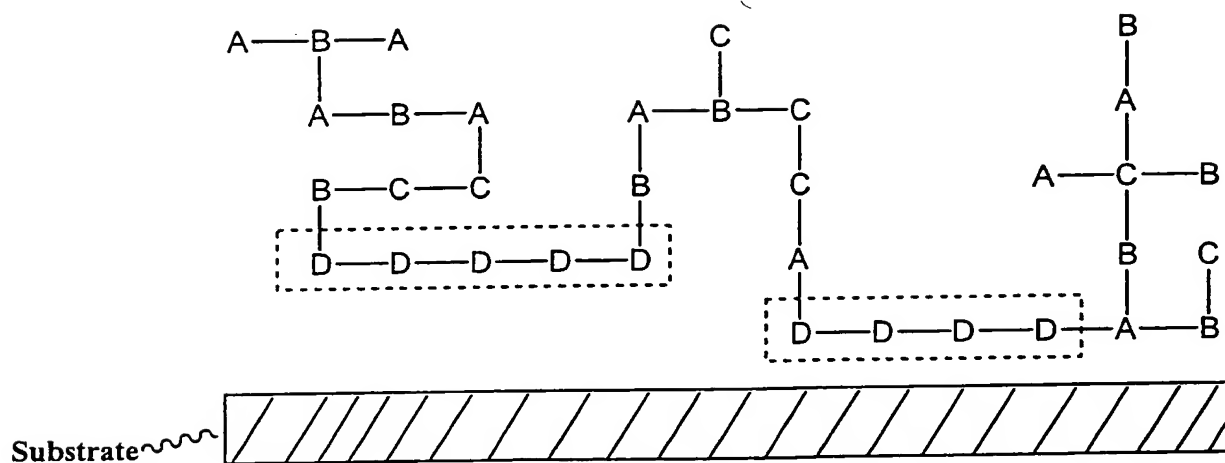
B



C

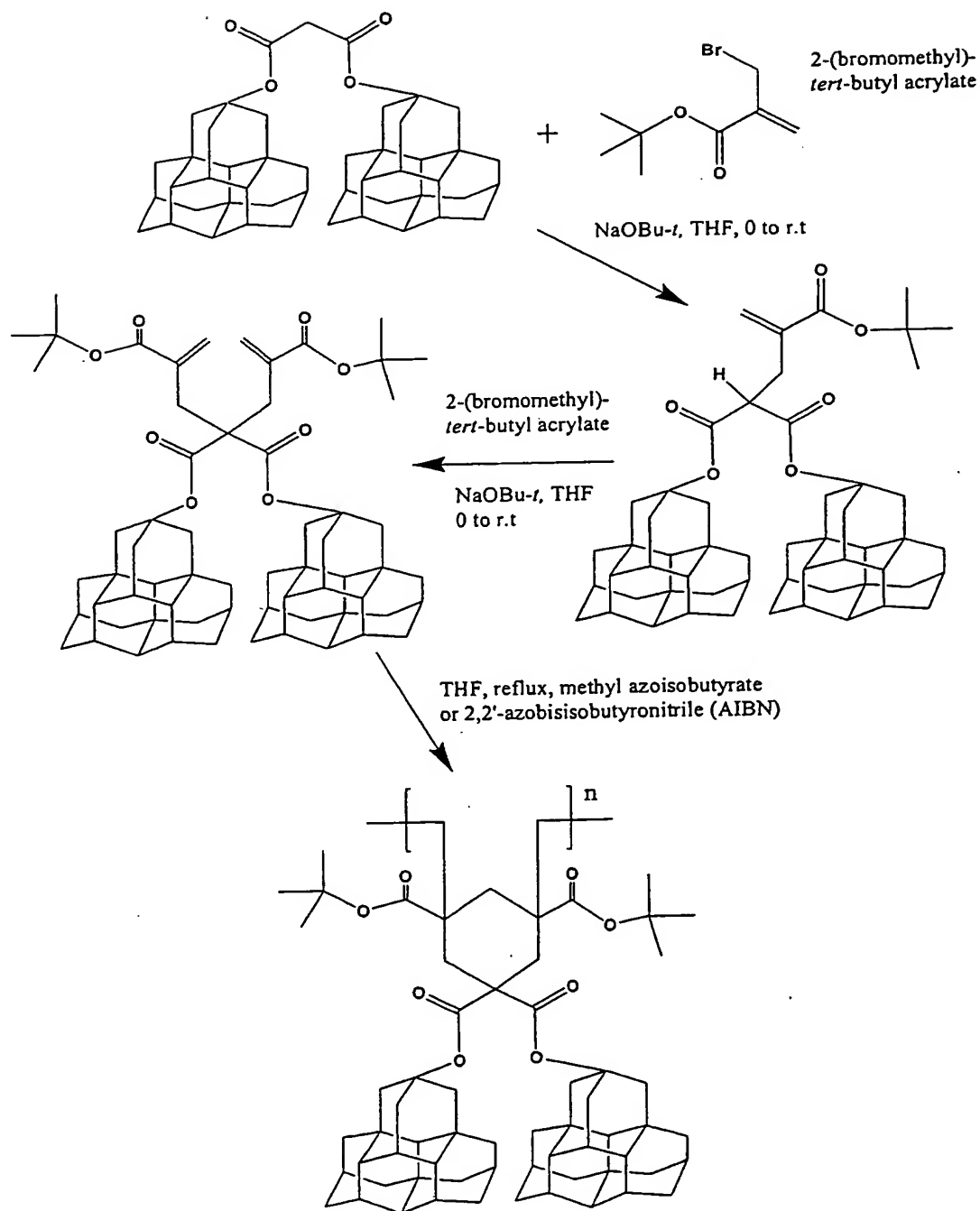


D



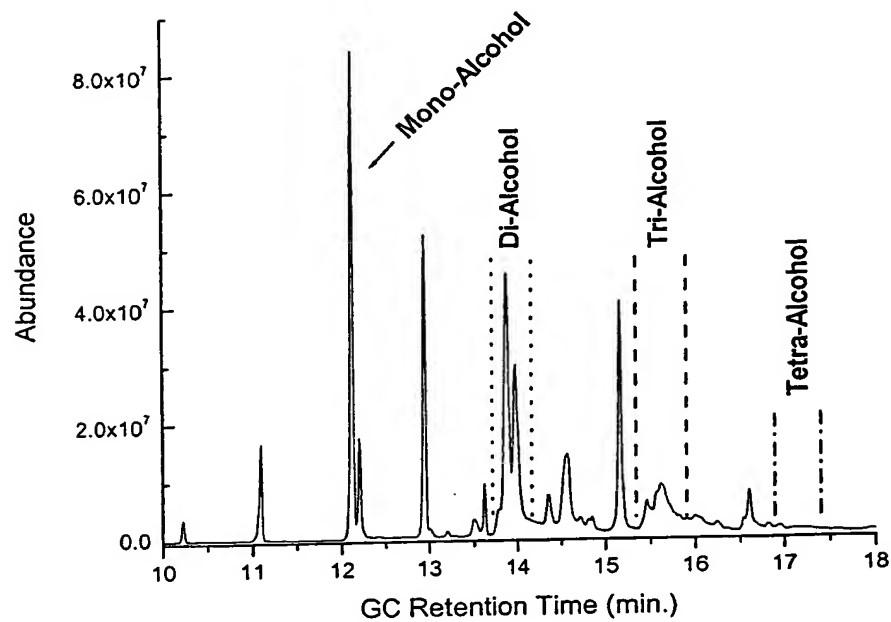
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FIG. 27



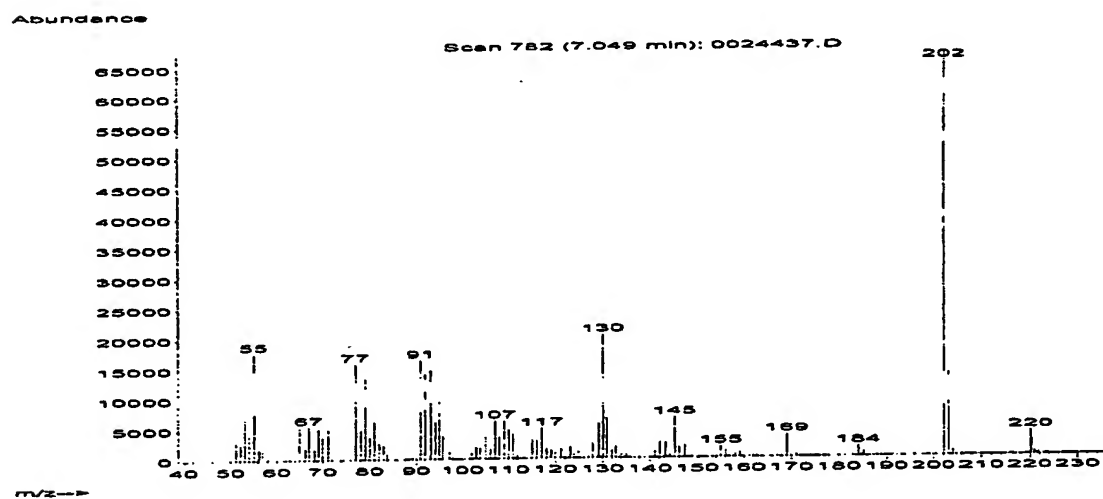
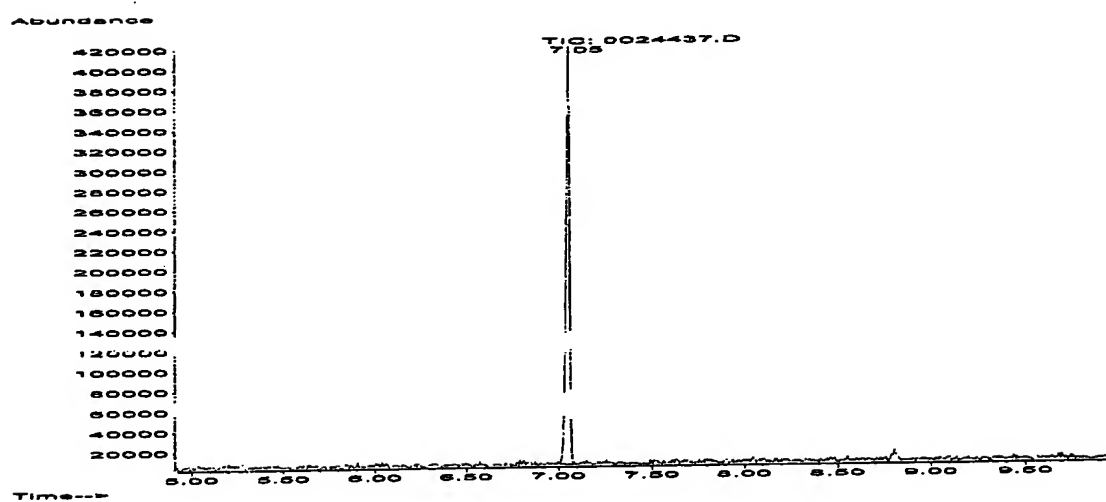
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FIG. 28



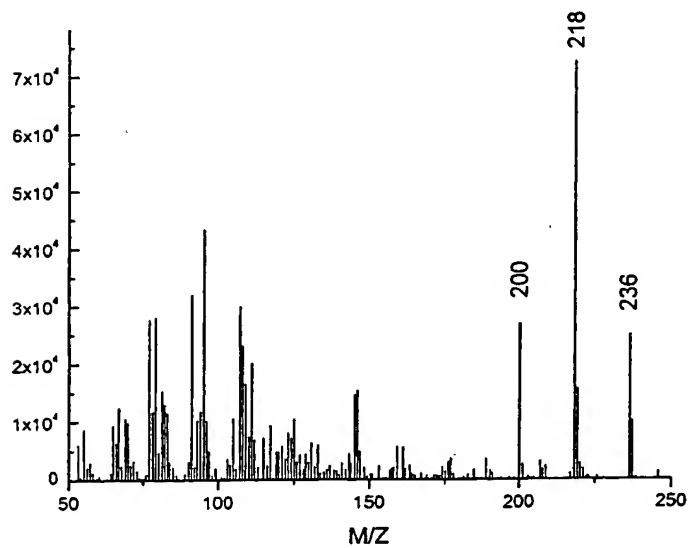
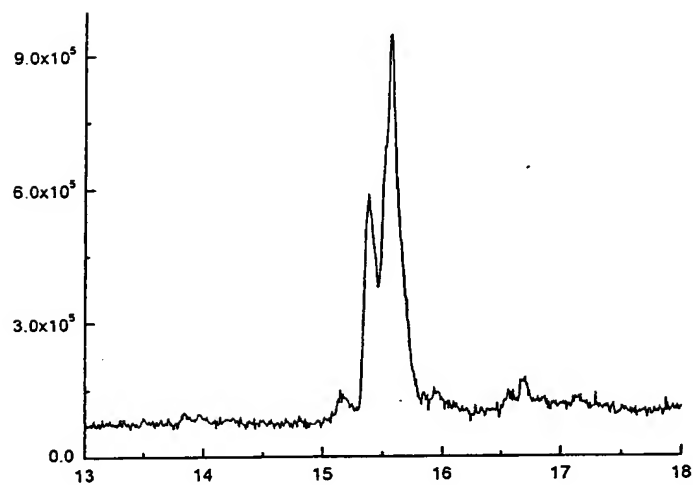
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FIG. 29



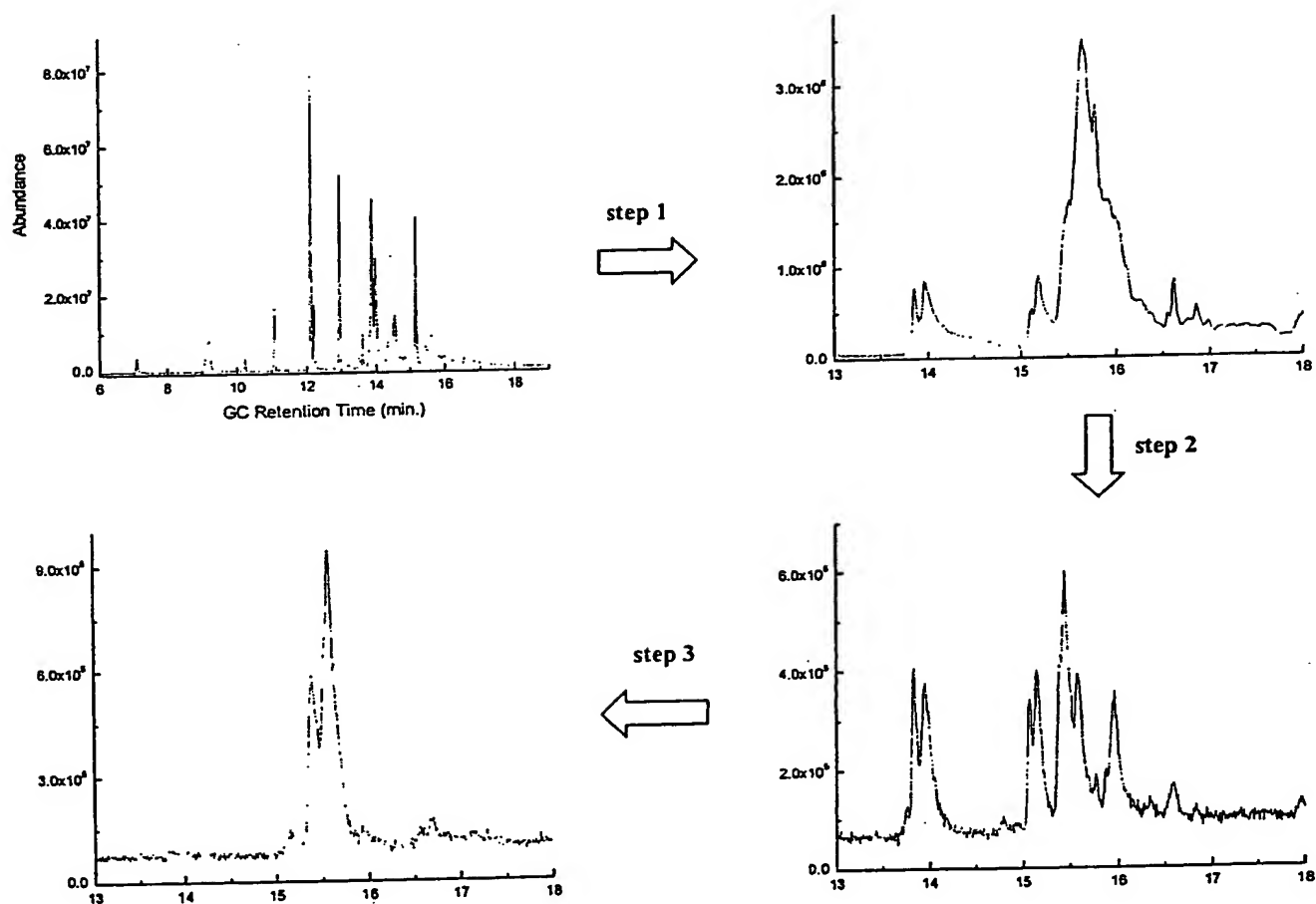
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FIG. 30



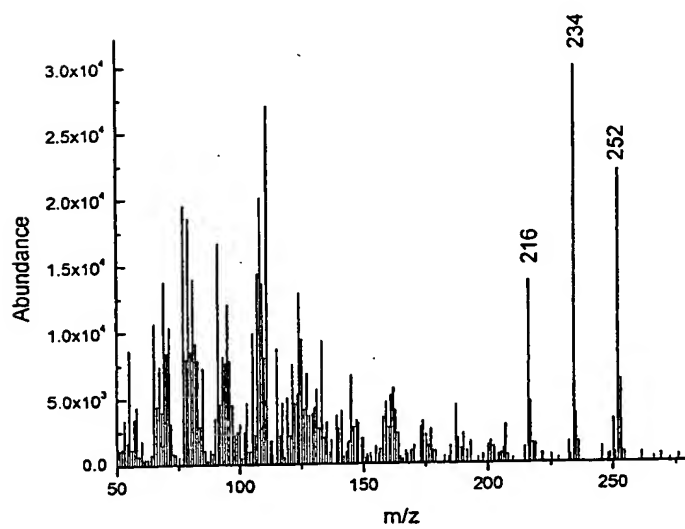
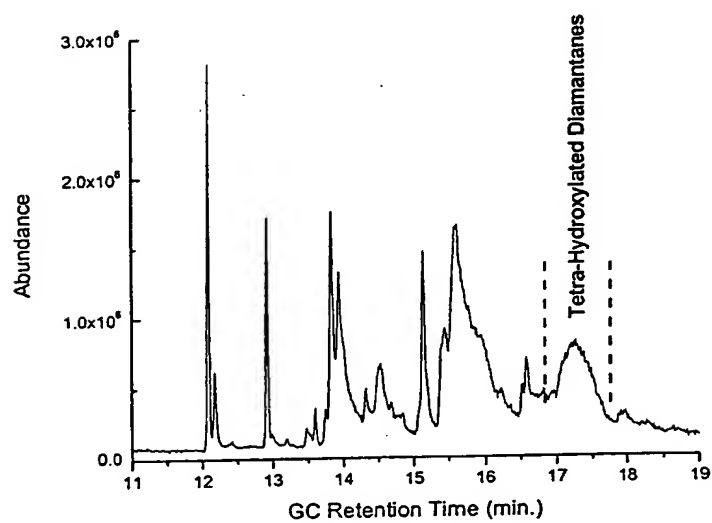
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FIG. 31



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FIG. 32



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FIG. 33A

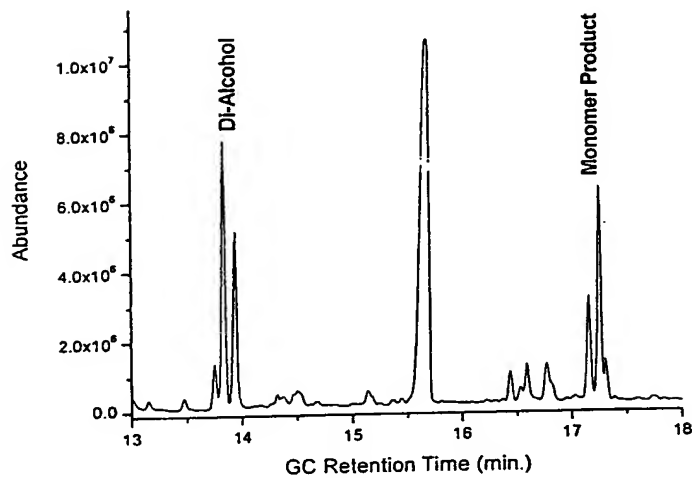
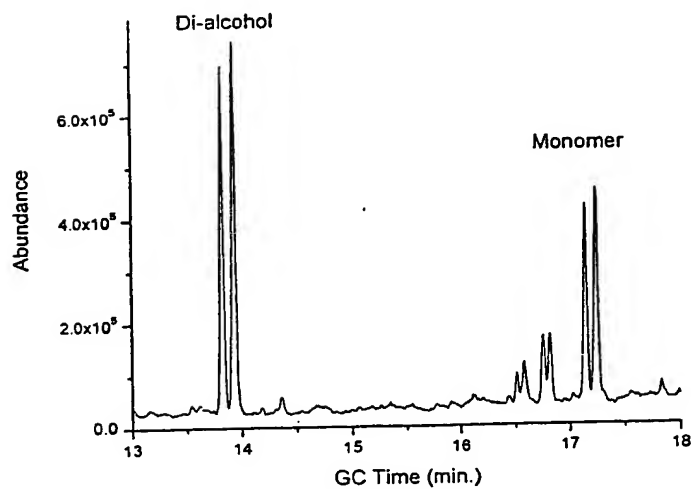


FIG. 33B



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FIG. 34

